

### ABSTRACT OF THE DISCLOSURE

A system for transmitting data over a physical resource including a layer configured to manage the physical resource and to guarantee a quality of service, and a first sub-layer configured to supply a transmission support in accordance with the quality of service and to segment the data into transmission units. The first sub-layer reduces a size of at least one of the transmission units when transmission conditions on the physical resource are degraded. A second sub-layer is configured to transmit at least one of the transmission units over the physical resource during each of transmission time intervals. The transmission time interval is a periodic time interval during which the second sub-layer is allowed to access the physical resource. A physical layer is configured to perform error correction coding or decoding of the data.